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Date of Report: February 1, 2005

Contract Number: DTRS56-05-T-0001

Prepared for: U.S. Department of Transportation OPS Research and Development

Project Title: Innovative Welding Processes for Small to Medium Diameter Gas Transmission Pipelines

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Quarterly period ending: February 1, 2005 {effective date: November 5, 2005}

Objectives: The project aims to develop innovative welding processes and technologies for single-sided pipeline girth welding. Root pass welding techniques will be emphasized since they have the greatest potential to improve pipeline integrity and facilitate the use of new and existing GMAW fill pass techniques. Advanced automation techniques will be used to improve weld quality, process control, seam tracking, and robustness.

Cost Share: There is one Group-Sponsored Project (CPQ) (a), two 'GTO' projects funded by the State of Ohio (b) (c), and one project at Cranfield University (d), which cost share into this effort. Here is a schematic depicting these cost sharing relationships.

